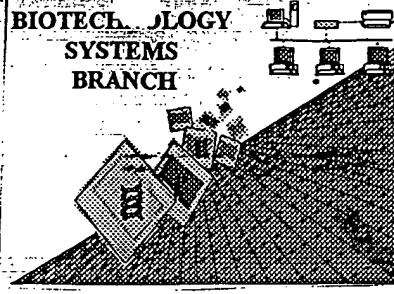


RAW SEQUENCE LISTING

ERROR REPORT



RECEIVED
JUN 11 2001
PTO
SER. 1600/2900

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/522,727

Source: 1644

Date Processed by STIC: 1-04-01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/522,727

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

<p>1 <input type="checkbox"/> Wrapped Nucleic</p> <p>2 <input type="checkbox"/> Wrapped Aminos</p> <p>3 <input type="checkbox"/> Incorrect Line Length</p> <p>4 <input type="checkbox"/> Misaligned Amino Acid Numbering</p> <p>5 <input type="checkbox"/> Non-ASCII</p> <p>6 <input type="checkbox"/> Variable Length</p> <p>7 <input type="checkbox"/> PatentIn ver. 2.0 "bug"</p> <p>8 <input type="checkbox"/> Skipped Sequences (OLD RULES)</p> <p>9 <input type="checkbox"/> Skipped Sequences (NEW RULES)</p> <p>10 <input checked="" type="checkbox"/> Use of n's or Xaa's (NEW RULES)</p> <p>11 <input type="checkbox"/> Use of <213>Organism (NEW RULES)</p> <p>12 <input type="checkbox"/> Use of <220>Feature (NEW RULES)</p> <p>13 <input type="checkbox"/> PatentIn ver. 2.0 "bug"</p>	<p>The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".</p> <p>The amino acid number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping".</p> <p>The rules require that a line not exceed 72 characters in length. This includes spaces.</p> <p>The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.</p> <p>This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text so that it can be processed.</p> <p>Sequence(s) _____ contain n's or Xaa's which represented more than one residue. As per the rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.</p> <p>A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.</p> <p>Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS") (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: This sequence is intentionally skipped</p> <p>Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).</p> <p>Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence. <210> sequence id number <400> sequence id number 000</p> <p>Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of <220> to <223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.</p> <p>Sequence(s) _____ are missing this mandatory field or its response.</p> <p>Sequence(s) _____ are missing the <220>Feature and associated headings. Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown" Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)</p> <p>Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other means to copy file to floppy disk.</p>
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 1644
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Does Not Comply
 Corrected Diskette Needed
 See pp. 1-5

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/522,727

DATE: 01/04/2001
 TIME: 08:52:41

Input Set : A:\47577.txt
 Output Set: N:\CRF3\01042001\I522727.raw

```

4 <110> APPLICANT: DANA-FARBER CANCER INSTITUTE, INC.
5   MARASCO, Wayne
6   MHASHILKAR, Abner
8 <120> TITLE OF INVENTION: INTRABODY-MEDIATED CONTROL OF IMMUNE
9   REACTIONS
11 <130> FILE REFERENCE: 47577 CA
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/522,727
C--> 14 <141> CURRENT FILING DATE: 2000-03-10
16 <150> PRIOR APPLICATION NUMBER: 60/059,339
17 <151> PRIOR FILING DATE: 1997-09-19
19 <160> NUMBER OF SEQ ID NOS: 55
21 <170> SOFTWARE: FastSEQ for Windows Version 3.0
  
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ERRORED SEQUENCES

23 <210> SEQ ID NO: 1	Number of amino acids differ:		
24 <211> LENGTH: 5	- 5 listed		
25 <212> TYPE: PRT	- 15 shown		
26 <213> ORGANISM: human			
28 <400> SEQUENCE: 1			
29 Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser			
E--> 30 1 5 10 15			
681 <210> SEQ ID NO: 54			
682 <211> LENGTH: 277			
683 <212> TYPE: PRT			
684 <213> ORGANISM: human			
686 <400> SEQUENCE: 54			
687 Met Glu His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp			
688 1 5 10 15			
689 Val Leu Ser Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Thr Arg			
690 20 25 30			
691 Pro Gly Ala Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe			
692 35 40 45			
693 Thr Ser His Trp Met Gln Trp Val Arg Gln Arg Pro Gly Gln Gly Leu			
694 50 55 60			
695 Glu Trp Ile Gly Thr Ile Tyr Pro Gly Asp Gly Asp Thr Arg Tyr Thr			
696 65 70 75 80			
697 Gln Asn Phe Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Thr			
698 85 90 95			
699 Thr Ala Tyr Leu His Leu Ser Ser Leu Ser Ser Glu Asp Ser Ala Val			
E--> 700 100 105 110			
701 Tyr Tyr Cys Ala Arg Asp Glu Ile Thr Thr Val Val Pro Arg Gly Phe			
702 115 120 125			
703 Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly			
704 130 135 140			
705 Gly Ser Gly Gly Ser Gly Gly Ser Glu Leu Val Leu			

→ MISSING amino acid numbering

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/522,727

DATE: 01/04/2001
TIME: 08:52:41

Input Set : A:\47577.txt
Output Set: N:\CRF3\01042001\I522727.raw

706 145 150 155 160
707 Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Leu Gly Asp Thr Ile Thr
708 165 170 175
709 Ile Thr Cys His Ala Ser Gln Asn Ile Asn Val Trp Leu Ser Trp Tyr
710 180 185 190
711 Gln Gln Lys Pro Gly Asn Ile Pro Gln Leu Leu Ile Tyr Lys Ala Ser
712 195 200 205
713 Asn Leu His Thr Gly Val Pro Ser Arg Phe Ser Gly Arg Gly Ser Gly
714 210 215 220
715 Thr Gly Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Ile Gly
716 225 230 235 240
717 Thr Tyr Tyr Cys Gln Gln Gly Gln Ser Tyr Pro Leu Thr Phe Gly Gly
718 245 250 255
719 Gly Thr Lys Leu Glu Ile Lys Arg Ala Asp Ala Ala Pro Thr Val Ser
720 260 265 270
721 Glu Lys Asp Glu Leu

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p. 3

<210> 29
<211> 32
<212> PRT
<213> human

Seg. # 29

<400> 29

Met Leu Phe Asn Leu Arg Xaa Xaa Leu Asn Asn Ala Ala Phe Arg His
1 5 10 15
Gly His Asn Phe Met Val Arg Asn Phe Arg Cys Gly Gln Pro Leu Xaa
20 25 30

Missing mandatory <220> to <223>
features to explain "Xaa's" in
the sequence.

See #10
on the Error
Summary Sheet.

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P. 4

<210> 51
<211> 837
<212> DNA
<213> human

<220>
<221> CDS
<222> (1)...(837)

Seg # 51

Missing Mandatory <220> to <223>
features to explain the "n" at position
505.

<400> 51			
atg gaa cat ctg tgg ttc ttc ctt ctc ctg gtg gca gct ccc aga tgg			48
Met Glu His Leu Trp Phe Phe Leu Leu Val Ala Ala Pro Arg Trp			
1 5 10 15			
gtc ctg tcc cag gtg caa ctg cag cag tca ggg gct gag ctg gca aga			96
Val Leu Ser Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Ala Arg			
20 25 30			
cct ggg gct tca gtg aag ttg tcc tgc aag gct tct ggc tac acc ttt			144
Pro Gly Ala Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe			
35 40 45			
act agt cac tgg atg cag tgg gtg aga cag agg cct gga cag ggt ctg			192
Thr Ser His Trp Met Gln Trp Val Arg Gln Arg Pro Gly Gln Gly Leu			
50 55 60			
gaa tgg att ggg act att tat cct gga gat ggt gat act agg tac act			240
Glu Trp Ile Gly Thr Ile Tyr Pro Gly Asp Gly Asp Thr Arg Tyr Thr			
65 70 75 80			
cag aat ttc aag ggc aag gcc aca ttg act gca gat aag tcc tcc acc			288
Gln Asn Phe Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Thr			
85 90 95			
aca gcc tac tta cac ctc agc agc ttg tca tct gaa gac tct gcg gtc			336
Thr Ala Tyr Leu His Leu Ser Ser Leu Ser Ser Glu Asp Ser Ala Val			
100 105 110			
tat tat tgt gca aga gat gag att act acg gtt gta ccc cgg ggg ttt			384
Tyr Tyr Cys Ala Arg Asp Glu Ile Thr Thr Val Val Pro Arg Gly Phe			
115 120 125			
gct tac tgg ggc caa ggg acc tcg gtc acc gtc tcc tca ggt ggc ggt			432
Ala Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser Gly Gly Gly			
130 135 140			
ggc tcg ggc ggt ggt ggc tcg ggt ggc ggc gga tct gag ctc gtg ctc			480
Gly Ser Gly Gly Ser Gly Gly Gly Ser Glu Leu Val Leu			
145 150 155 160			
acc caa acc cca acc tcc ctg gct ^{nrc} tct ctg gga gac aga gtc acc			528
Thr Gln Thr Pro Thr Ser Leu Ala Xaa Ser Leu Gly Asp Arg Val Thr			
165 170 175			
atc agt tgc agg gca agt cag gac att agc agt tat tta aac tgg tat			576
Ile Ser Cys Arg Ala Ser Gln Asp Ile Ser Ser Tyr Leu Asn Trp Tyr			
180 185 190			

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p5

<210> 52
<211> 277
<212> PRT
<213> human

Seg #52

Missing mandatory <220> to <223>
features to explain "Xaa" at

<400> 52

Met Glu His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp
1 5 10 15
Val Leu Ser Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Ala Arg
20 25 30
Pro Gly Ala Ser Val Lys Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe
35 40 45
Thr Ser His Trp Met Gln Trp Val Arg Gln Arg Pro Gly Gln Gly Leu
50 55 60
Glu Trp Ile Gly Thr Ile Tyr Pro Gly Asp Gly Asp Thr Arg Tyr Thr
65 70 75 80
Gln Asn Phe Lys Gly Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Thr
85 90 95
Thr Ala Tyr Leu His Leu Ser Ser Leu Ser Ser Glu Asp Ser Ala Val
100 105 110
Tyr Tyr Cys Ala Arg Asp Glu Ile Thr Thr Val Val Pro Arg Gly Phe
115 120 125
Ala Tyr Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser Gly Gly Gly
130 135 140
Gly Ser Gly Gly Gly Ser Gly Gly Gly Ser Glu Leu Val Leu
145 150 155 160
Thr Gln Thr Pro Thr Ser Leu Ala Xaa Ser Leu Gly Asp Arg Val Thr
165 170 175
Ile Ser Cys Arg Ala Ser Gln Asp Ile Ser Ser Tyr Leu Asn Trp Tyr
180 185 190
Gln Gln Lys Pro Asp Gly Thr Ile Lys Leu Leu Ile Tyr Tyr Thr Ser
195 200 205
Arg Leu Tyr Ser Gly Val Pro Pro Arg Phe Ser Gly Ser Gly Ala Gly
210 215 220
Thr Asp Tyr Ser Leu Thr Ile Ser Asn Leu Glu Gln Glu Asp Phe Ala
225 230 235 240
Thr Tyr Phe Cys Gln Gln Gly Asn Val Ile Pro Tyr Thr Phe Gly Gly
245 250 255
Gly Thr Lys Leu Glu Met Lys Arg Ala Asp Ala Ala Pro Thr Val Ser
260 265 270
Glu Lys Asp Glu Leu
275

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/522,727 DATE: 01/03/2001
TIME: 08:52:12

Input Set : A:\47577.txt
Output Set: N:\CRF3\01042001\I522727.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:30 M:252 E: No. of Seq. differs, <z11>LENGTH:Input:5 Found:15 SEQ:1
L:280 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:29
L:280 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:29
L:280 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:29
L:280 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:29
L:280 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:29
L:282 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:29
L:282 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:29
L:282 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:29
L:282 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:29
M:340 Repeated in SeqNo:29
L:522 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:51
L:523 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:51
L:523 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:51
M:340 Repeated in SeqNo=51
L:581 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:52
L:581 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:52
L:581 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:52
L:581 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:52
L:581 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:52
L:700 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:54